

Blast of SEQ ID NO:1 versus human genomic sequence

MEGABLAST 1.2.3-Paracel [2001-11-20]

Reference:

Zheng Zhang, Scott Schwartz, Lukas Wagner, and Webb Miller (2000),

"A greedy algorithm for aligning DNA sequences",

J Comput Biol 2000; 7(1-2):203-14.

Database: Homo_sapiens.latestgp.masked.fa

33,840 sequences; 200,810,911,373 total letters

Query= 1

(3753 letters)

Sequences producing significant alignments:	Score (bits)	E Value
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AL033377.2.1.135090

1245 0.0

AL360007.11.1.90011

198 2e-47

>AL033377.2.1.135090

Length = 135090

Score = 1245 bits (628), Expect = 0.0

Identities = 628/628 (100%)

Strand = Plus / Plus

Query: 444 agttgccgtgtccttaaggaatcaaaagggtcattttaccccagacatcagatgcttacca 503

|||||

Sbjct: 36010 agttgccgtgtccttaaggaatcaaaagggtcattttaccccagacatcagatgcttacca

36069

Query: 504 ggtatctgttgcaaaaagcatctctattccagagctcagtgtttcacactctgctttga 563

|||||

Sbjct: 36070 ggtatctgttgcaaaaagcatctctattccagagctcagtgtttcacactctgctttga

36129

Query: 564 agcaaccaaagttggccatgaagacagtgattggacagctttctcctactcaaatgcatc 623

|||||

Sbjct: 36130 agcaaccaaagttggccatgaagacagtgattggacagctttctcctactcaaatgcatc

36189

Query: 624 cttcacacaattgctcagttttggaaaggccaagagtggctactttctatccatttctga 683

|||||

Sbjct: 36190 cttcacacaattgctcagttttggaaaggccaagagtggctactttctatccatttctga

36249

Query: 684 ttcaaaatgtttgttgaataatgcattacctgtcaaagaaaaagaagacatttttgcaga 743

|||||

Sbjct: 36250 ttcaaaatgtttgttgaataatgcattacctgtcaaagaaaaagaagacatttttgcaga

36309

Query: 744 aagctttgaacagctctgccttggttgaataattctttgggctctattggtgtaaattt 803
|||||
Sbjct: 36310 aagctttgaacagctctgccttggttgaataattctttgggctctattggtgtaaattt
36369

Query: 804 caaaagaaactatgaaacagttccatgtgattctaccattagtaaagttattcctgggaa 863
|||||
Sbjct: 36370 caaaagaaactatgaaacagttccatgtgattctaccattagtaaagttattcctgggaa
36429

Query: 864 tgggaaattggttgggtccaatcaaaatgaaattgtctctctaaaaggggacattta 923
|||||
Sbjct: 36430 tgggaaattggttgggtccaatcaaaatgaaattgtctctctaaaaggggacattta
36489

Query: 924 taactttcgactttggaattttaccatgaatgcaaaatcctctccaacctcagctgtaa 983
|||||
Sbjct: 36490 taactttcgactttggaattttaccatgaatgcaaaatcctctccaacctcagctgtaa
36549

Query: 984 tgtgaaaggggaatgtagtcgactggcaaaatgacttctggaatatcccaaactagctct
1043
|||||
Sbjct: 36550 tgtgaaaggggaatgtagtcgactggcaaaatgacttctggaatatcccaaactagctct
36609

Query: 1044 gaaagctgaaagcaacctaagctgtggt 1071
|||||
Sbjct: 36610 gaaagctgaaagcaacctaagctgtggt 36637

Score = 690 bits (348), Expect = 0.0
Identities = 348/348 (100%)
Strand = Plus / Plus

Query: 98 cagcagtgtggggatgtgccaactgccgagtgggtttgtccaacccttctgggaccttta 157
|||||
Sbjct: 33405 cagcagtgtggggatgtgccaactgccgagtgggtttgtccaacccttctgggaccttta
33464

Query: 158 cttctccatgctaccctaacgactacccaaacagccaggcttgcatgtggacgctccgag 217
|||||
Sbjct: 33465 cttctccatgctaccctaacgactacccaaacagccaggcttgcatgtggacgctccgag
33524

Query: 218 cccccaccggttatatcattcagataacatttaacgactttgacattgaagaagctccca 277
|||||

Sbjct: 33525 cccccaccggttatatcattcagataacatttaacgactttgacattgaagaagctccca
33584

Query: 278 attgcatttatgactcattatcccttgataatggagagagccagactaaatgttgagg 337
|||||
Sbjct: 33585 attgcatttatgactcattatcccttgataatggagagagccagactaaatgttgagg
33644

Query: 338 caactgccaaaggcctatcatttaactcaagtgcgaatgagatgcatgtgtccttttcaa 397
|||||
Sbjct: 33645 caactgccaaaggcctatcatttaactcaagtgcgaatgagatgcatgtgtccttttcaa
33704

Query: 398 gtgacttttagcatccagaagaaagggtttcaatgccagctacatcagag 445
|||||
Sbjct: 33705 gtgacttttagcatccagaagaaagggtttcaatgccagctacatcagag 33752

Score = 565 bits (285), Expect = e-158
Identities = 285/285 (100%)
Strand = Plus / Plus

Query: 3036 ctgttggattcaagatccagtcataatgttgacctgtgctgggtatgttgagtcag 3095
|||||
Sbjct: 85663 ctgttggattcaagatccagtcataatgttgacctgtgctgggtatgttgagtcag 85722

Query: 3096 gttttttctgaacattgccatgttcattgtggtaatggtgcagatctgtgggaggaatgg 3155
|||||
Sbjct: 85723 gttttttctgaacattgccatgttcattgtggtaatggtgcagatctgtgggaggaatgg 85782

Query: 3156 caagagaagcaaccggaccctgagagaagaagtgttaaggaacctgcgcagtggttag 3215
|||||
Sbjct: 85783 caagagaagcaaccggaccctgagagaagaagtgttaaggaacctgcgcagtggttag 85842

Query: 3216 cttgacctttctgttgggcatgacatggggttttgcattctttgcctggggacccttaa 3275
|||||
Sbjct: 85843 cttgacctttctgttgggcatgacatggggttttgcattctttgcctggggacccttaa 85902

Query: 3276 tatcccttcatgtacctcttctccatcttcaattcattacaagg 3320
|||||

Sbjct: 85903 tatcccccttcatgtacctcttctccatcttcaattcattacaagg 85947

Score = 537 bits (271), Expect = e-149
Identities = 271/271 (100%)
Strand = Plus / Plus

Query: 2670 gaaattgcgaagggattatccctccaaaatcttgatgaacctgagcacagccctgctggt
2729

|||||
Sbjct: 81638 gaaattgcgaagggattatccctccaaaatcttgatgaacctgagcacagccctgctggt
81697

Query: 2730 cctgaatctcctcttctccttagatggctggatcacctccttcaatgtggatggactttg
2789

|||||
Sbjct: 81698 cctgaatctcctcttctccttagatggctggatcacctccttcaatgtggatggactttg
81757

Query: 2790 cattgctgttgagtcctggtgcatttcttctctggcaacctttacctggatgggggt
2849

|||||
Sbjct: 81758 cattgctgttgagtcctggtgcatttcttctctggcaacctttacctggatgggggt
81817

Query: 2850 agaagcaattcacatgtacattgctctagttaaagtatttaacacttacattcgccgata
2909

|||||
Sbjct: 81818 agaagcaattcacatgtacattgctctagttaaagtatttaacacttacattcgccgata
81877

Query: 2910 cattctaaaattctgcatcattggctgggggt 2940

|||||
Sbjct: 81878 cattctaaaattctgcatcattggctgggggt 81908

Score = 420 bits (212), Expect = e-114
Identities = 215/216 (99%)
Strand = Plus / Plus

Query: 1740 tttaaaagaagcaaataagttgctaaccagattttaaatttaactgctgatgggcagaa
1799

|||||
Sbjct: 68457 tttagaagaagcaaataagttgctaaccagattttaaatttaactgctgatgggcagaa
68516

Query: 1800 cttaacctcagccaatattaccaacattgtggaacagggtcaaaagaattgtgaataaaga
1859

|||||
Sbjct: 68517 cttaacctcagccaatattaccaacattgtggaacaggtcaaaagaattgtgaataaaga
68576

Query: 1860 agaaaacattgatataaacacttgggtcaactctaataatatttttctaataatcttaag
1919

|||||
Sbjct: 68577 agaaaacattgatataaacacttgggtcaactctaataatatttttctaataatcttaag
68636

Query: 1920 cagttcagacagtgacttgcttgagtcattcttctga 1955

|||||
Sbjct: 68637 cagttcagacagtgacttgcttgagtcattcttctga 68672

Score = 361 bits (182), Expect = 2e-96
Identities = 182/182 (100%)
Strand = Plus / Plus

Query: 3572 cagacagtgttccatggacaagtccttgtcaaaactggcccatgctgatggagatcaaa
3631

|||||
Sbjct: 109176 cagacagtgttccatggacaagtccttgtcaaaactggcccatgctgatggagatcaaa
109235

Query: 3632 catcaatcatccctgtccatcaggtcattgataagggtcaagggttattgcaatgctcatt
3691

|||||
Sbjct: 109236 catcaatcatccctgtccatcaggtcattgataagggtcaagggttattgcaatgctcatt
109295

Query: 3692 cagacaacttctataaaaaatattatcatgtcagacaccttcagccacagcacaaaagtttt
3751

|||||
Sbjct: 109296 cagacaacttctataaaaaatattatcatgtcagacaccttcagccacagcacaaaagtttt
109355

Query: 3752 aa 3753

||
Sbjct: 109356 aa 109357

Score = 341 bits (172), Expect = 2e-90
Identities = 172/172 (100%)
Strand = Plus / Plus

Query: 1956 agcttttaaaaacaattgatgaattggccttcaagatagacctaataatagcacatcacatgt
2015

|||||
Sbjct: 69644 agctttaaaaacaattgatgaattggccttcaagatagacctaaatagcacatcacatgt
69703

Query: 2016 gaattattacaactcggaacttggctctcagcgtatcatccctgttaccagggacaaatgc
2075

|||||
Sbjct: 69704 gaattattacaactcggaacttggctctcagcgtatcatccctgttaccagggacaaatgc
69763

Query: 2076 aatttcaaatttttagcattgggtcttccaagcaataatgaatcgtattttccag 2127

|||||
Sbjct: 69764 aatttcaaatttttagcattgggtcttccaagcaataatgaatcgtattttccag 69815

Score = 309 bits (156), Expect = 7e-81
Identities = 156/156 (100%)
Strand = Plus / Plus

Query: 3419 cagattggagtaagacagctaccaatatcatcaagaaaagttctgataatctaggaaaat
3478

|||||
Sbjct: 104051 cagattggagtaagacagctaccaatatcatcaagaaaagttctgataatctaggaaaat
104110

Query: 3479 ctttgtcttcaagctccattgggtccaactcaacctatcttacatccaaatctaaatcca
3538

|||||
Sbjct: 104111 ctttgtcttcaagctccattgggtccaactcaacctatcttacatccaaatctaaatcca
104170

Query: 3539 gctctaccacctattttcaaaaggaatagccacacag 3574

|||||
Sbjct: 104171 gctctaccacctattttcaaaaggaatagccacacag 104206

Score = 287 bits (145), Expect = 3e-74
Identities = 145/145 (100%)
Strand = Plus / Plus

Query: 2125 cagatggattttgagagtggaagtgatccactggcatctgtaattttgcctccaaac
2184

|||||
Sbjct: 71527 cagatggattttgagagtggaagtgatccactggcatctgtaattttgcctccaaac
71586

Query: 2185 ttacttgagaatttaagtccagaagattctgtattagttagaagagcacagtttactttc
2244

|||||
Sbjct: 71587 ttacttgagaatttaagtccagaagattctgtattagttagaagagcacagtttactttc
71646

Query: 2245 ttcaacaaaactggacttttccagg 2269
|||||
Sbjct: 71647 ttcaacaaaactggacttttccagg 71671

Score = 283 bits (143), Expect = 4e-73
Identities = 146/147 (99%)
Strand = Plus / Plus

Query: 1423 aggttggtgctttgggcccttctagttttacaatgctaccaacaataactaatttagaagga
1482
|||||
Sbjct: 63453 aggttggtgctttgggcccttctagttttacaatgctaccaacaataactaatttgggaagga
63512

Query: 1483. aaaatcattcagcagaagctcctaaaaaataatgagtccttggaatgaaggcttgaggcta
1542
|||||
Sbjct: 63513 aaaatcattcagcagaagctcctaaaaaataatgagtccttggaatgaaggcttgaggcta
63572

Query: 1543 catacagtgaatgtgagacaactgggt 1569
|||||
Sbjct: 63573 catacagtgaatgtgagacaactgggt 63599

Score = 258 bits (130), Expect = 2e-65
Identities = 130/130 (100%)
Strand = Plus / Plus

Query: 2541 ggaccttccaagaagtgcctcacagttagatgcaagaaacactaaagtccctcactttcat
2600
|||||
Sbjct: 80810 ggaccttccaagaagtgcctcacagttagatgcaagaaacactaaagtccctcactttcat
80869

Query: 2601 cagctatattgggtgtggaatatctgctattttttcagcagcaactctcctgacatatgt
2660
|||||
Sbjct: 80870 cagctatattgggtgtggaatatctgctattttttcagcagcaactctcctgacatatgt
80929

Query: 2661 tgcttttgag 2670
|||||

Sbjct: 80930 tgcttttgag 80939

Score = 244 bits (123), Expect = 3e-61
Identities = 123/123 (100%)
Strand = Plus / Plus

Query: 2267 aggatgtaggaccccaaagaaaaacttttagtgagttatgtgatggcgtgcagtattggaa
2326

|||||
Sbjct: 73990 aggatgtaggaccccaaagaaaaacttttagtgagttatgtgatggcgtgcagtattggaa
74049

Query: 2327 acattactatccagaatctgaaggatcctgttcaaataaaaatcaaacatacaagaactc
2386

|||||
Sbjct: 74050 acattactatccagaatctgaaggatcctgttcaaataaaaatcaaacatacaagaactc
74109

Query: 2387 agg 2389

|||
Sbjct: 74110 agg 74112

Score = 224 bits (113), Expect = 3e-55
Identities = 113/113 (100%)
Strand = Plus / Plus

Query: 1567 ggtcattgtcttgccatggaggaacccaaaggctactactggccatctatccaaccttct
1626

|||||
Sbjct: 66326 ggtcattgtcttgccatggaggaacccaaaggctactactggccatctatccaaccttct
66385

Query: 1627 gaatacgttcttccttggtccagacaagcctggcttttctgcttctcggatatg 1679

|||||
Sbjct: 66386 gaatacgttcttccttggtccagacaagcctggcttttctgcttctcggatatg 66438

Score = 214 bits (108), Expect = 3e-52
Identities = 112/113 (99%), Gaps = 1/113 (0%)
Strand = Plus / Plus

Query: 2431 aaca-aaagttttggaggatggaacacgtcaggatgtgttgacacagagattcagatgc
2489

|||||
Sbjct: 77142 aacagaaagttttggaggatggaacacgtcaggatgtgttgacacagagattcagatgc
77201

Query: 2490 aagtgaacagtcctgcctgtgtaaccacttcacacactttggagttctgatgg 2542
|||||
Sbjct: 77202 aagtgaacagtcctgcctgtgtaaccacttcacacactttggagttctgatgg 77254

Score = 198 bits (100), Expect = 2e-47
Identities = 103/104 (99%)
Strand = Plus / Plus

Query: 3318 aggcttatttatattcatcttccactgtgctatgaaggagaatgttcagaaacagtggcg
3377
|||||
Sbjct: 103274 aggcttatttatattcatcttccactgtgctatgaaggagaatgttcagaaacagtggcg
103333

Query: 3378 gcggcatctctgctgtggtagatttcggttagcagataactcag 3421
|||
Sbjct: 103334 gcagcatctctgctgtggtagatttcggttagcagataactcag 103377

Score = 172 bits (87), Expect = 1e-39
Identities = 87/87 (100%)
Strand = Plus / Plus

Query: 1222 gatggaattatctatagaatatccgtagtgattcagaacatccttcgtcaccctgaggta
1281
|||||
Sbjct: 56099 gatggaattatctatagaatatccgtagtgattcagaacatccttcgtcaccctgaggta
56158

Query: 1282 aaagtacagagcaaggtggcagaatgg 1308
|||||
Sbjct: 56159 aaagtacagagcaaggtggcagaatgg 56185

Score = 170 bits (86), Expect = 4e-39
Identities = 86/86 (100%)
Strand = Plus / Plus

Query: 1137 agctactgtaaactctcctagtagtactacaccacccactgtcaccactaacatgcctgttac
1196
|||||
Sbjct: 49600 agctactgtaaactctcctagtagtactacaccacccactgtcaccactaacatgcctgttac
49659

Query: 1197 taacagaatcgataaacaaggaatg 1222

|||||
Sbjct: 49660 taacagaatcgataaacaaggaatg 49685

Score = 139 bits (70), Expect = 1e-29
Identities = 70/70 (100%)
Strand = Plus / Plus

Query: 1069 ggttcctacctgatcccgtcccagcagcagaactggccagctgtgcagacctggggacc
1128

|||||
Sbjct: 47792 ggttcctacctgatcccgtcccagcagcagaactggccagctgtgcagacctggggacc
47851

Query: 1129 ctctgtcaag 1138

|||||
Sbjct: 47852 ctctgtcaag 47861

Score = 133 bits (67), Expect = 9e-28
Identities = 67/67 (100%)
Strand = Plus / Plus

Query: 1360 agttttcacctgagtgtgagaggacaagattaaagtcaagagaagccttgaggatgag
1419

|||||
Sbjct: 59736 agttttcacctgagtgtgagaggacaagattaaagtcaagagaagccttgaggatgag
59795

Query: 1420 ccaaggt 1426

|||||
Sbjct: 59796 ccaaggt 59802

Score = 131 bits (66), Expect = 4e-27
Identities = 66/66 (100%)
Strand = Plus / Plus

Query: 1679 gtttttacaatgctaccaacccattggtacactactggggacctgttgatatctccaact
1738

|||||
Sbjct: 67835 gtttttacaatgctaccaacccattggtacactactggggacctgttgatatctccaact
67894

Query: 1739 gtttaa 1744

|||||
Sbjct: 67895 gtttaa 67900

Score = 107 bits (54), Expect = 5e-20
Identities = 54/54 (100%)
Strand = Plus / Plus

Query: 1308 gctcaattcaaccttccaaaattggaactacacggtttatgtcgttaatatcag 1361
|||||
Sbjct: 58789 gctcaattcaaccttccaaaattggaactacacggtttatgtcgttaatatcag 58842

Score = 103 bits (52), Expect = 8e-19
Identities = 52/52 (100%)
Strand = Plus / Plus

Query: 2938 ggtttgcctgccttagtggtgtcagttgttctagcgagcagaaacaacaatg 2989
|||||
Sbjct: 83114 ggtttgcctgccttagtggtgtcagttgttctagcgagcagaaacaacaatg 83165

Score = 95.6 bits (48), Expect = 2e-16
Identities = 55/57 (96%), Gaps = 1/57 (1%)
Strand = Plus / Plus

Query: 2387 aggaagtgcacatcccatctgtgccttctgggatctgaacaaaaacaa-aagtttt 2442
|||||
Sbjct: 75714 aggaagtgcacatcccatctgtgccttctgggatctgaacaaaaacagtaagtttt 75770

>AL360007.11.1.90011
Length = 90011

Score = 198 bits (100), Expect = 2e-47
Identities = 100/100 (100%)
Strand = Plus / Plus

Query: 1 atgtttcgtcagatcgaaatgtggagctgccattggaaatggaagcccagtcctctcctg 60.
|||||
Sbjct: 65298 atgtttcgtcagatcgaaatgtggagctgccattggaaatggaagcccagtcctctcctg
65357

Query: 61 ttcttatttgctttatatatcatgtgtgttcctcactcag 100
|||||
Sbjct: 65358 ttcttatttgctttatatatcatgtgtgttcctcactcag 65397